UTIN, I.A.; GOLUBEV, Yu.V.

Redesigning assemblies of pipe rolling mills. Metallurg 10 no.4: 22-24 Ap '65. (MIRA 18:7)

1. Azerbaydzhanskiy truboprokatnyy zavod.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

GOLUBEV-NOVOZHILOV, Yu.S.[translator]; ASHKENAZY, V.O., red.; GROZHOVA, V.I., red.; SMUROV, B.V., tekhn. red.

[Application of the theory of games in military affairs] Primenenie teorii igr v voennom dele; sbornik. Moskva, Izd-vo "Sovetskoe radio," 1961. 360 p. (MIRA 15:2) (Game theory) (Military art and science)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

Rew developments in dry cleaning. Prom. koop. 12 no.8:11 Ag '58.

(MIRA 11:9)

1.Glavnyy inzhener moskovskoy fabriki "Khimchistka" No.2 (for Golubeva)
2.Moskovskaya fabrika "Khimchistka" No.2 (for Troshchenko).

(Cleaning and dyeing industry)

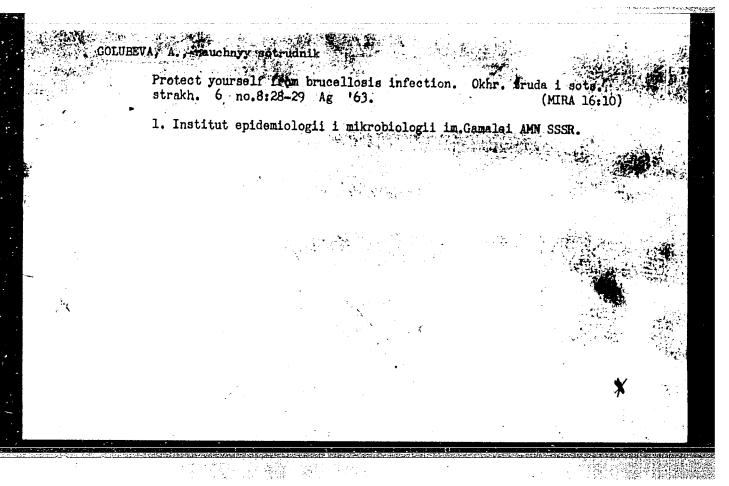
Spots disappear. Mest.prom.i khud.promys. 3 no.3:34 Mr 162. (MIRA 15:3)
1. Direktor Moskovskoy fabriki khimicheskoy chistki i krasheniya adezhdy No.2.
(Cleaning compounds)

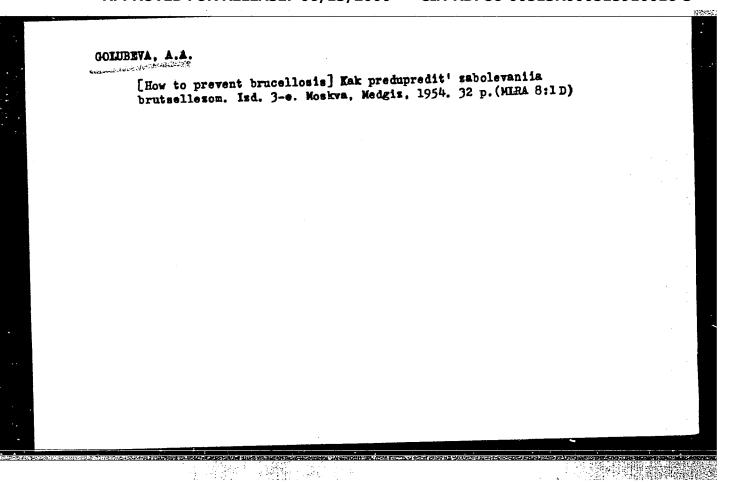
GOLUBEVA, A.A. (Leningrad)

"The Use of the Method of Correlational Pleiads in the Detection of Connection between Physicochemical Properties of Substances and Their Toxicity"

Report presented at the 3rd Conference on the use of Mathemetics in Biology, Leningrad University, 23-28 Jan. 1961.

(Primeneniye matematicheskikh Metodov v Biologii. II, Leningrad, 1963 pp 5-11)





VERSHILOVA, P.A.; GOLUREVA, A.A.

General data on the epidemiological effectiveness of vaccination of humans against brucellosis with living vaccine from the H.F.Genaleia Institute of Epidemiology and Microbiology of the Academy of Medical Science of the U.S.S.R. Zhur.mikrobiol.epid. i immun. 27 no.11: 64-69 N '56. (MLRA 10:1)

1. Iz Instituta epidemiologii i mikrobiologii imeni W.F.Gemelei AMN SSSR

(BRUCELLOSIS, prevention and control, vacc. in Russia (Rus))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

GOLUBEVA A.A.

BRUCELLOSIS

"The Epidemiological Stage of Brucellosis and the Measures of its Control," by Professor P.A. Vershilova and AA. Golubeva, Zdravookhraneniye Rossiyskoy Federatsii, No 3, March 1957, pp 11-16

In the USSR, there are all the three types of brucellosis; however, the authors state that both cattle and swine brucellosis is seldom transmitted to men. Thus, brucellosis of the sheep-goat type is most usual in the USSR, and its spreading area corresponds to sheep raising zones.

At the present time, brucellosis is recorded in 54 oblast's of he RSFSR, According to the data covering 9 months, 1956, the morbidity of brucellosis, as compared with the same period in 1955, has increased in some oblast's. The authors emphasize that the cause of such an increase is the insufficiency of vaccination and at the same time the carelessness of non-professionals in the work of livestock raising. However, the number of such non-professionals exceeds the number of professionals, say the authors. In the Chkalovskaya oblast' the number of non-professionals surpasses the number of the professional group by 34 times.

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BRUCELLOSIS

In the same oblast', the epidemiological anamnesis shows for a number of years that among those afflicted with brucellosis, 72.7 percent belong to the unprofessional group. The authors also mention the formation of new fuci of infection., such as for example, in the Stavropol'skiy kray (1953 - 32\hat{p}, 195\hat{h} - 30\hat{p}, and in 1955 - 229\hat{p} of the total suffering from brucellosis). According to the data of 195\hat{h}, the morbidity in the new center of infection as compared with the general indicators of brucellosos in the corresponding districts constituted in the Kuybyshevskaya oblast' - 82.7 percent and in the Rostovskaya Oblast' - 62 percent. The authors point of the fact that a similar proportion still prevailed in a number of republics and oblast's as late as in 1956.

Finally, the increase in the morbidity of brucellosis has been caused by unseasonable vaccination, it being known that, as the authors write the inoculation made during the heat of the cohabitation of animals, is of small effectiveness. The authors also call to mind that, in case of brucellosis, the immunity is relative, and among the vaccinated persons 2 to 8 percent always fall ill. Because of such a

Card 2/3

BRUCELLOSIS

comparative immunity from brucellosis, the authors emphasize the necessity of measures so as to decrease the concentration of morbific agents in soil, litter and bedding for animals in the premises, etc.

The authors conclude that their epidemiological experience of many years has demonstrated all the complexity of fighting brucellosis. In order to be successful in this struggle, it is necessary to let not only the medical men participate but also to call on veterinary physicians and the Soviet and economical organizations.

Card 3/3

GOLUBEVA, A.A., LIKHONOS, A.N., MARKARYAN, A.G., PILETSKAYA, Ye.M.

Incidence of brucellosis in Stavropol Territory. Zdrav.Ros.Fed.
2 no.9118-21 5'58 (MIRA 11:10)

1. Iz Instituta epidemiologii i mikrobiologii i Stavropol'skoy krayevoy sanitarno-epidemiologicheskoy stantsii.
(STAVROPOL TERRITORY--ERUCELLOSIS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

VERSHILOVA, P.A.; GOLUBEVA, A.A.

Epicutaneous revaccination against brucellosis of workers in meatpacking plants and on livestock farms. Zhur.mikrobiol.epid. i immun. 29 no.3:58-62 Mr 158. (MIRA 11:4)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

VERSHILOVA, P.A., prof.; GOLUBEVA, A.A.; KAYTMAZOVA, Ye.I.;
OSTROVSKAYA, N.N.; KHODZHAYEV, Sh.Kh.; VOSKRESENSKIY, B.V.,
red.; LYUDKOVSKAYA, N.I., tekhn. red.

[Brucellosis; a handbook for physicians]Brutsellez; rukovodstvo dlia vrachei. Moskva, Medgiz, 1961. 413 p. (MIRA 15:10) (BRUCELIOSIS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

VERSHILOVA, P. A.; GOLUBEVA, A. A.

"Prophylactic Vaccination of Human Beings and its Effect on morbidity among Workers on Sheep Farms."

Report presented at the meeting of the World Health Organization, Geneva, 3-9 Dec 63.

Gamaleya Institute of Epidemiology and Microbiology, AMS USSR.

VERSHILOVA, P.A.; GOLDBEVA, A.A.

Ways of a further reduction of the incidence of brucellosis among the population of the U.S.S.R. Vest. AMN SSSR 19 no.8: 20-28 164. (MIRA 18:7)

1. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR, Moskva.

GOLDBEVA, A.A.; CHELYADINOVA, Ye.B.

Distribution of brucellosis among the population of some European countries during the last decade (1951-1960). Vest. AMN SSSR 19 no.8:28-36 164. (MIRA 18:7)

1. Institut epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR, Moskva.

BASHKIN, N.Ya.; DMITRIYEVSKIY, V.S.; GOLUBEVA, A.A.; NECHAYEVA, Ye.M.

Smelting fluxed iron ore open-hearth briquets at the Komintern
Plant. Metallurg 9 no.12:19-21 D '64. (MIRA 18:2)

GOLUBEVA, A.D ZHVIRBLYANSKIY, Yu.M., doktor tekhnicheskikh nauk, professor; GOLUREVA, A.D., inzhener-tekhnolog; KOSTERKO, A.S., inzhener-tekhnolog. Two-boiling system with intermediate crystallization of green sirup.
Trudy TSINS no.4:92-127 156. (MIRA 10:5) (Sugar industry)

GOLUBEVA, A.D.

Effect of trisodium phosphate added to the 2nd carbonation juices upon the sugar losses in wash sirups. Sakh.prom. 34 no.2:20-22 F '60. (MIRA 13:5)

1. TSentral'nyy nauchno-issledovatel!skiy institut sakharnoy promyshlennosti.
(Sugar manufacture) (Phosphates)

PERTSEL', V.M.; ROSTRIPERKO, I.A.; GOLUREVA, A.D.

Experience in using sodium phosphate for improving the boiling and centrifuging of massecuites at the Petrovskoys Sugar Factory. Sakh.prom. 34 no.3:10-12 Mr 78.60 (MIRA 13:6)

1. 2-y Petrovskiy sakharnyy zavod (for Pertsel', Rostripenko). 2. TSentral'nyy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Golubeva). (Petrovskoy (Kharkov Province) - Sugar manufacture)

KHARAKOZ, A.Ye. GOLUBEVA, A.F.

Filter-press waste of sugar factories in Kirghizistan. Izv.AN
Kir.SSR.Ser.est.i tekh.nauk 2 no.3:75-78 60. (MIRA 13:9)
(Kirghizistan-Sugar-By-products)

GoLubeva, A. G.

USSR/Chemical Technology. Chemical Products and I-22

Their Application -- Crude rubber, natural and

synthetic. Vulcanized rubber.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 9782

Author: Epshteyn, V. G. and Golubeva, A. G.

Inst: Not given

Title : The Accelerating Action of the Salts of Primary

Amines During the Vulcanization of Rubbers

Orig Pub: Uch. zap. yaroslavsk. tekhnol. in-ta, 1956, Vol 1,

175-186

Abstract: The monosubstituted salts of phthalic acid and

primary aromatic amines (benzidine (I), p-anisidine (II), & - and & -naphthalamines (III), and m-phenyl-enediamine (IV) act as supplementary accelerators during the vulcaulaation of mixtures of natural rubber with SKS-30A in the presence of carbon black. The polymerizing effectiveness of the salts in SKS-30A mixtures, measured by the increase in the modulus

Card 1/3

USSR/Chemical Technology. Chemical Products and I-22
Their Application--Crude rubber, natural and synthetic. Vulcanized rubber.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957 9782

Abstract: of electricity, can be expressed in the following decreasing series: IV-I-II-III. The addition of salts of II increases the tensile strength to 30-40 kg/cm²; salts of III have no effect on the tensile strength. The tensile strength and elasticity of carbon black reinforced formulations based on natural rubber are improved by the addition of I and II; the latter have no effect on the elasticity and tensile strength of formulations in which fillers are not used, though the vulcanization temperature is raised. Salts of aromatic amines have no effect on SKB vulcanizates, their action being masked by the alkali. Amine salts in contrast to the free amines do not increase the tendency to premature vulcanization of mixtures of natural rubber and SKS-30A. The activating effect of the salts can

Card 2/3

GOLUEEVA. A. I.

1400

Children's Hosp., Moscow Follow-up data on the mental state of children after to meningitis Of 92 children who had recovered, 70 were normal in intelligence and behaviour. Ten of these had a relapse of memingitis. In 12 children the intelligence was unimpaired but the behaviour psychopathically disturbed. Ten were mentally deficient. In most of this last group the streptomycin treatment had been started late and the illness was complicated by paralyses and th lesions of other organs. Selamum - Koper(XX, 7, 8, 15)

So: Excerpta Medica, Section VIII, Vol. 5, No. 4, April 1952

CIA-RDP86-00513R000515910016-3" APPROVED FOR RELEASE: 06/13/2000

COLUBEVA, A. I.

COLUBEYA, A. I.- "Psychological Features of Appearance of Persistence in School Children." Moscow State Pedagogical Inst imeni V. I. Lenin, Moscow, 1955 (Dissertations for the Degree of Candidate of Pedagogical Sciences)

SO: Knizhnaya Letopis! No. 26, June 1955k Moscow

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

IL'YASHUK, Nikolay Davidovich; TROSHCHENKO, Mariana Aleksandrovna; GOLUBEVA, Aneta Mikhaylovna; ZLATOVEROV, B.S., red.; TRUSOV, N.S., tekhn. red.

[Technology of the chemical cleaning and dyeing of garments] Tekhnologiia khimicheskoi chistki i krasheniia odezhdy. Moslva. Gosbytizdat, 1963. 185 p. (MIRA 17:2)

BYKOV, A.N.; YERMOLAYEVA, Ye.A.; KIRILLOVA, T.M.; GOLUBEVA, A.N.

Colored capron fibers. Khim. volok. no.2:41-43 '64.

(MIRA 17:5)

1. Ivanovskiy khimiko-tekhnologicheskiy institut.

ROMANYUK, F.I.; PETROV, G.S. [deceased]; GOLUMEVA, A.N.; KARTASHEV, N.A.; SAZONOVA, V.M.; KAMENSKIY, I.V.; OGNEVA, N.Ye.

New methods for preventing the flew of reservoir waters into wells being exploited. Trudy VNII no.16:106-127 *58.

(MIRA 11:12)

(Oil field fleeding)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

GOLUBEVA, A. P.

25056. GOLUBEVA, A. P. OVliyanii Prirody Obmennoy Kislotnosti Pachv Na Rost Rasteniy. Trudy Yubileynoy Sessii, Posvyashch Stoletiyu So Dnya Rozhdeniya Dokuchayeva. M.-L., 1949, S. 280-88. — Bibliogr: S. 288 4. Agrotekhnika. Obshcheye Rasteniyevodstvo. Zashchita Rasteniy

SO: Letopis' No. 33, 1949

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

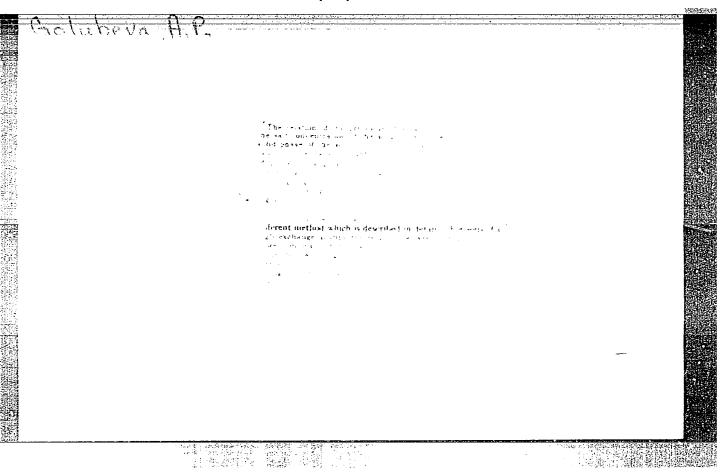
COLUBEVA, A. P.

Dissertation: "Modification of the Acidity of Sod-Podsolic Soils as a Result of Liming." Cand Agr Sci, All-Union Sci Res Inst of Fertilizers, Agricultural Engineering and Soil Science, 10 Jun 54. (Vechernyaya Moskva, Moscow, 1 Jun 54)

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SO: SUM 318, 23 Dec 1954

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"



SOV/63-3-6-35/43

AUTHORS:

Usmanova, N.F., Golubeva, A.V., Vansheydt, A.A.

TITLE:

The Synthesis of Paraisopropylstyrene and the Properties of Its Polymers and Copolymers With Styrene (O sinteze paraizopropilstirola i svoystvakh yego polimerov i sopolimerov so

stirolom)

PERIODICAL:

Khimicheskaya nauka i promyshlennost', 1958, Vol III, Nr 6,

pp 833-834 (USSR)

ABSTRACT:

Simultaneous polymerization of styrene with paraisopropylstyrene was used for the production of polystyrenes with various contents of paraisopropyl groups in the aromatic nuclei. Polymers of isopropylstyrene were produced by the block and

mers of isopropylstyrene were produced by the block and emulsion methods. Copolymerization of paraisopropylstyrene with styrene was carried out by the block method using 5 different relations of the monomers in the initial mixtures. The properties of the produced polymers and copolymers are

shown in a table.

There is 1 table and 5 references, 1 of which is Soviet,

Oard 1/2

3 English, and 1 German.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515910016-3

SOV/63-3-6-35/43

The Synthesis of Paraisopropylstyrene and the Properties of Its Polymers and Copolymers With Styrene

ACCOCIATION: Nauchno-issledovatel'skiy institut polimerizatsionnykh plast-mass (Scientific Research Institute of Polymer* Plastics)

April 7, 1958 SUBMITTED:

Card 2/2

CIA-RDP86-00513R000515910016-3" APPROVED FOR RELEASE: 06/13/2000

GOLUBEVA, A.V.; SIVOGRAKOVA, K.A.; LYANDZHERG, G.Ya.; GORODETSKAYA, R.A.

The MSN ternary copolymers. Biul.tekh.-ekon.inform. no.12:12

[58. (Plastics) (Polymers)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

GOLUBEVA, A.V.; SIVOGRAKOVA, K.A.; LYANDZBERG, G.Ya.; DOYNIKOVA, S.H. The SN-28 copolymer of styrole with acrilonitrile. Biul. tekh.-ekon.inform. no.12:12-13 '58. (MIRA 11 (Polymers) (Acrilonitrile) (Styrene) (MIRA 11:12)

5(1) va, A.U. AUTHOR: Porzhitskiy, I. I. TITLE: Conference of the Workers of the Plastics Industry (Soveshchaniye rabotnikov promyshlennosti plastmass) SOV/64-59-4-25/27 PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 4, Pp 88-89 ABSTRACT: From June 9 to 14, the branch conference of the workers in the plastics industry was held in Moscow. It was organized by the following institutions: Gosudarstvennyy komitet Soveta Ministrov SSSR po khimii (State Committee of the Council of Ministers of the USSR for Chemistry), Tak profacyuza rabochikh neftyanoy i khimicheskoy promyshlennosti (Central Committee of the Trade Union of the Workers of the Petroleum- and Chemical Industry), Tsentralnoye prayleniye VKhO im. D. I. Mendeleyeva (Central Administration VKhO imeni D. I. Mendeleyev) and Sovety-narodnogo khozyaystva Moskovskogo oblastnogo i gorodskogo ekonomicheskikh rayonov, GNTK SSSR i RSFSR (Councils of the National Economy of the Moscow Oblast: and Town Economic Districts) GNTK USSR and RSFSP . 1000 persons took part in the Conference. The tasks the CPSS and the May Plenum of the Tak CPSS 1958 were discussed. Card 1/3 Beside the Plenary Session, sessions of four different sections

Conference of the Workers of the Plastics Industry

sov/64-59-4-25/27

took place. In the session of the section for polymerization plastics and cellulose-ester 16 lectures were held. Among them the following: F. A. Oleynik (Kuskovskiy khimicheskiy zavod) (Kusko Chemical Works) - Research Work With Polyformaldehyde, (Kusko Chemical Works) - Research Work With Polyformaldehyde, (Misko Chemical Works) - Styrene copolymers, N. S. Lebedov A. V. Goluheva (NIIPP) - Styrene copolymers, N. S. Lebedov (Yerevanskiy zavod im. S. M. Kirova) (Yerevan Works imeni (Yerevanskiy zavod im. S. M. Kirova) (Yerevan Works imeni (Yerevanskiy zavod im. S. M. Kirova) (Plastics P. S. Ivanov Catalysts. In the section of condensation plastics P. S. Ivanov (Nizhne-Tagil'skiy zavod plastmass) (Nizhniy Tagil Works for (Nizhne-Tagil'skiy zavod plastmass) (Nizhniy Tagil Works for (Plastics) spoke on "The Technology of the Phenol Formaldehyde Plastics) spoke on "The Continuous Method". In the session of Resins According to the Continuous Method". In the session of

Plastics) spoke on "The lectures and 9 communications of Resins According to the Continuous Method". In the session of the section glass plastics 12 lectures and 9 communications of the section glass plastics were delivered. The following production of glass planting production of glass planting production of glass planting planting planting planting planting planting planting planting plant

Final Products According to the Pneumatic Method", Final Products According to the Pneumatic Method", Z.P. Mitskevich (Kiyevskiy ekonomicheskiy rayon)(Kiyev Economic Rayon), "On Manufacturing Complicated Final Products of

Card 2/3

Conference of the Workers of the Plastics Industry

SOV/64-59-4-25/27

Polyamides by Casting at Low Pressure Directly From the Fusion Kettle Without the Use of Casting Implements", G. V. Struminskiy (NIIPM) "On the Production and Final Processing of Transparent Soft and Hard Polyvinyl Chloride Mixtures". The congress delegates criticized the work of the Upravleniye plasticheskikh mass i sinteticheskikh smol Gosudarstvennogo komiteta Soveta Ministrov SSSR po khimii (Administration for Plastic Masses and Synthetic Resins of the State Committee of the Council of Ministers of the USSR for Chemistry), and some institutes because of insufficient coordination. Furthermore the insufficient supply with projecting plans of the plastics industry by the Ciproplast was criticized. The unsatisfactory development of some Districts of National Economy (Kemerova, Leningrad, Armenia, et al) was pointed out. The conference supported the decision of the branch conference of the nitrogen industry concerning the introduction of a holiday to be called "Day of Chemists".

Card 3/3

	Organolia Polymers and r. S. Florinskiy (UCS). Schemical Structure on the Polymerisation Lettvity of the Crymometallia Compounds. Tol'hepshtern M. F. (USS). Geoperative Processes in the	Ling of folymhloropress AFILIBLE: Library of Congress Card 9/9	List, P., and R. Chromeck (Caschoslovalis condensation in a Superation Chiberta, L. V., T. F. Dramore, and A. A. of Chiberta and T. T. T. Dramore, and A. A. of Chiberta in the Calinary (Caschoslovalia). Lis, D., and M. Kolinary (Caschoslovalia). Lis Folymeriantion of Tiryl Chloride Calinger, J. (Caschoslovalia). Study of the Calinary Calinary Calinary Colleges in a Column with a Calinary Caschoslovalia and Ca	Amilia, N. 5., and h. A. Rodivilora. (USSI). On the Beteropmon of the Polycomeanium **Eliberier. N. I. V. I. Marbarala, and S. S. Fivoleyers. (USSI). See Saintions Underlying the Interfacial Polycomismation of Acceptation of Distribuying and Distribution of Some Metallia Compounds on the Formation of Polymentanes.	om martenderlar behaltry in besty the started includes date on the synthesis and properties of polymers, and on the processes of polymeriation, corpolymerisation, polymerication, and polymerication and polymerication. Each text is presented in All or summarised in Franch, Explinh, and Essian. There are AP papers, 28 of which were presented by Soriet, Busnates, Sungarian, and Cashonirakian scientists. Be personalities are sentioned. References accompany initiational articles. **Caroning K. 1s. Thursdan D. T. Kosarnico. S. J. Embharnge, and The B. Bosherns (USAS). Polymondensition of the or-saino deids katers in the Frances of Carbon Diuxide **Eight J. A. (Sungary). On the Behavior of Street Purfural-Formaldehyde Theolic Plastice	Sponsoring Agency: The International Union of Pure and Applied Chemistry, Commission on Mecromolecular Chemistry Theh. Ed.: T. 7. Folyakova. PURPOSE: This collection of articles is intended for chemists and researchers interested in macromolecular chemistry. Commission of the section of a maintainty.	SUT/4961 International symposium on macromolecular chemistry, Noscow, 1960. Machdomarodnyy simposium po makromolecular chemistry himit SUSS, hoskva, 11-18 fyunya 1960 g.; dollady i ertorsfersty. Sekisiya I. (international Symposium on Macromolecular Chemistry Sail in Hoscow, June 11-18, 1960; Papers and Summaries. Section I.) [Moscow, Ind-ro AS SUSS, 1960] 146 p. 5,500 ceptes printed.
202 49		44	F 1). On the Heteropeneous Method 228 S. Hirolayers (INSE). On Polyrondissastion of Acid see in the Process of Fiber 237 Synthesis of Folyuraids by 215 I. A. Frenklin (INSE). The contraction of the Formation of the Polyronium of th	cludes data on the seas of polymeriasticm, son. Each text is Eursian. There are in, Bungarian, and med. Raferences and Local Satery in 210	blid Chelsty,	SUF/4981 Noscow, 1960, I. Side, Meskre, 14-18 I. (International Symposius 14-18, 1960) Papers and 1960] 146 p. 5,500 expless

S/191/60/000/008/001/014 B004/B056

AUTHORS:

Colubeva, A. V., Neymark, O. M. (Deceased), Usmanova, N.F., Sivograkova, K. A., Bezborodko, G. L., Meyerzon, A. A.

TITLE:

Synthesis of Acenaphthylene, Its Polymers, and Its Copoly-

mers With Other Monomers

PERIODICAL:

Plasticheskiye massy, 1960, No. 8, pp. 3-6

TEXT: In the introduction, the authors give a survey of published data on the synthesis, polynerization, and copolymerization of acenaphthylene which, with the exception of a paper by V. S. Titov (Ref. 2), is based upon western papers. The authors then give a report on their experiments. The synthesis proceeded from commercial acenaphthene of the type YMTY No. 4850-54 (ChMTU No. 4850-54), and took place in the vaporous phase. As catalysts, styrene contact was used as well as the usual catalyst used for the dehydrogenation of butane. For the purpose of analyzing the reaction products, a new method developed by V. A. Balandina and Z. F. Davydova was employed: Iodination of the double bond in the presence of mercurous chloride and HCl in an alcoholic medium. This method gave the same results

Card 1/3

Synthesis of Acenaphthylene, Its Polymers, and Its Copolymers With Other Monomers

S/191/60/000/008/001/014 B004/B056

as hydrogenation on palladium and platinum black according to G. L. Bezborodko. A maximum of concentration (up to 98.5%) and yield (up to 88%) was obtained between 640° and 650°C (Fig. 1). Fig. 2 gives the concentration of acenaphthylene as a function of the feeding rate of acenaphthene in g/1 catalyst. At 125 g/1 the concentration was 99%. Only a feeding rate from 320 to 330 g/l is considered to be profitable. An addition of water vapor offered no advantages. The block polymerization of acenaphthylene was carried out in the presence of benzoyl peroxide, the emulsion polymerization in the presence of potassium persulfate and sulfanol. Polymers with molecular weights of 119,000 and 160,000 were obtained, which, however, could not be processed because of their brittleness. The copolymerization of acenaphthylene with styrene was carried out under the same conditions as the polymerization. The acenaphthylene content was varied between 10 and 50%. The physical, mechanical, and electrical properties are given in Table 1. Fig. 3 shows that the thermal stability of the copolymer increased with an increasing content of acenaphthylene. In Fig. 4, the molecular weight and the intrinsic viscosity of the copolymer are represented as a function of the acemaphthylene content. The copolymer with a ratio between acenaphthylene : styrene = 20 : 80, which could be processed by pressing and casting under pressure was found to have Card 2/3

Synthesis of Acenaphthylene, Its Polymers, and Its Copolymers With Other Monomers

S/191/60/000/008/001/014 B004/B056

the best properties. Table 2 gives a comparison between the thermomechanical and electrical properties of the copolymer and those of the polystyrene. The dielectric properties are as good as those of polystyrene, and its thermal stability is higher by about 30°C. There are 4 figures, 2 tables, and 24 references: 2 Soviet, 9 US, 6 British, and 7 German.

Card 3/3

87643

5/191/60/000/012/002/016 B020/B066

11, 2210 also 2209

AUTHORS:

Golubeva, A. V., Usmanova, N. F., Sivograkova, K. A.

TITLE:

Copolymers of a-Methyl Styrene

PERIODICAL: Plasticheskiye massy, 1960, No. 12, pp. 4 - 6

TEXT: The present paper studies the possibility of copolymerizing α -methyl styrene with other polar and nonpolar vinyl compounds according to a radical mechanism. The properties of the copolymers obtained were investigated. For the copolymerization with α -methyl styrene, styrene, 2,5-dichloro styrene, methyl methacrylate, and acrylonitrile were used. Copolymerization was carried out by means of the emulsion method in the presence of an initiator (potassium persulfate) and of an emulsifier (Sulfanole). The monomer concentration ranged between 99.5 and 99.8%, the ratio of the hydrocarbon phase to the aqueous phase varied between 1:3 and 1:5, the pH of the medium was 7.8 - 8. The reaction was carried out in the stream of an inert gas (nitrogen) at 75 - 80°C. The composition of α -methyl styrene - styrene copolymers was determined by means of the infrared spectroscopic method devised by T. A. Speranskaya, that of the

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Copolymers of a-Methyl Styrene

S/191/60/000/012/002/016 B020/B066

remaining copolymers chemically. When increasing the α-methyl styrene content in the initial monomer mixture, copolymeritation is retarded, and the finite conversion degree drops (Fig. 1). In this connection, also the intrinsic viscosity of copolymers decreases (Fig.2). The heat resistance of copolymers drops with increasing a-methyl styrene content (Fig. 3). In the copolymerization of three monomers - a-methyl styrene, methyl methacrylate and acrylonitrile - in the ratio of 35.70:50.65:13.65 mole%, the heat resistance increases considerably as compared with that of the ternary MCH(MSN) copolymer which contains styrene instead of a-methyl styrene. The copolymers of a-methyl styrene with styrene or methyl methacrylate (ratio 1:2.5 moles) exhibited satisfactory mechanical properties and higher heat resistance than polystyrene and polymethyl methacrylate. The dielectric properties were similar to those of polystyrene. The authors also studied the conditions of copolymerization of α -methyl styrene with styrene, methyl methacrylate and acrylonitrile by the suspension method. Polyvinyl alcohol and Solvar (partly acetylated polyvinyl alcohol) were used as stabilizers for the suspension in quantities of 0.1 - 1%, and benzoyl peroxide, diisobutyric acid azodinitrile and benzoyl peroxide mixed with tert .- butyl peroxide (in a

Card 2/4

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Copolymers of a-Methyl Styrene

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ratio of 1:1) in quantities of 0.5 - 1% as initiators. The experiments were carried out in the stream of an inert gas at 70 - 90°C. Under these conditions, copolymerization of α -methyl styrene with styrene, as well as with acrylonitrile, proceeded slowly. Previously, a bulk polymerization of the monomers had to be carried out at 80°C up to a conversion of 35%, and a suspension polymerization of the pre-polymer obtained. Even when using this combined block-suspension polymerization, the degree of conversion of the monomers was only 96 - 97%. The dimensional stability under heat of the copolymers according to Vicat was only 115°C, and they were very brittle. Nor was the above stability of the ternary copolymers obtained under the same conditions any higher. The bulk copolymerization of a-methyl styrene with styrene, acrylonitrile and methyl methacrylate at different ratios of the monomers (from 0.25 to 1 mole of α -methyl styrene in the initial monomer mixture), with benzoyl peroxide, diisobutyric acid azo-dinitrile and cobalt naphthenate, possibly with a mixture of benzoyl peroxide with tert.-butyl peroxide (at-a ratio of 1:1) as initiators, at 70 - 200°C for 200 hours in glass ampuls which had been previously deaerated, yielded hard, transparent, colorless or - in the case of copolymerization with acrylonitrile - yellow polymers with a heat

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Copolymers of a-Methyl Styrene

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resistance according to Vicat of about 120°C. There are 3 figures, 1 table, and 7 references: 1 Soviet, 4 US, 1 Canadian, and 1 British.

Card 4/4

LYANDZBERG, German Yakovlevich; BAZLOVA, Tamara Petrovna; BUTYRINA,
Natal'ya Petrovna; GOLUBEVA, Anna Vasil'yevna; PECHENKIN,
Aleksandr Leont'yevich; SIVOCHAKOVA, Klavdiya Andreyevna;
AL'PERIN, G.R., red.; FREGER, D.P., red. izd-va; GVIRTS, V.L.,
tekhn. red.

[New L-PT acrylic plastics for pressure modling and extrusion]
Novyi akriloplast L-PT dlia lit'ia pod davleniem i ekstruzii.
Leningrad, 1961. 21 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Sinteticheskie materialy, no.9)

(Plastics)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

S/191/61/000/001/001/015 B101/B205

15.8104

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AUTHORS: Golubeva, A. V., Nosayev, G. A., Usmanova, N. F.,

Yeremina, Ye. N., Sivograkova, K. A.

TITLE: A suspension method for obtaining high-molecular polystyrene

PERIODICAL: Plasticheskiye massy, no. 1, 1961, 3-7

TEXT: In view of the great commercial advantages of suspension polymerization, the authors studied the most favorable conditions for obtaining high-molecular polystyrene with good physical, mechanical, and dielectric properties. In doing so, they applied the method of suspension polymerization. A study has been made of the influence of initiators and their mixtures, as well as of stabilizers and reaction temperature. The various initiators were synthesized by alkylation or acylation of ${\rm H_2O_2}$ or ${\rm Na_2O_2}$. First, polymerization was done in a nitrogen atmosphere at 20-95°C with a monomer-to-water ratio of 1:3 or 1:6, and with 0.5-2% initiator referred to styrene. The authors aimed at obtaining a granulated polymer. Results

Card 1/6

are summarized in Table 1:

্ত্ৰ প্ৰস্তুপৰ্য কৃষ্ণি সূত্ৰ ক্ৰমেন্ত্ৰ বিভাগ বিভাগ					SAM
A suspension method for Initiator tert-butyl hydroperoxide cyclohexanone peroxide tert-butyl peroxide acatone peroxide methyl-ethyl ketone peroxide hydroperoxy-dicarbonate	B101/B polymerization temperature C 80;90 80;90 90 80 80 20-90 90	61/000/ 205 time, in the state of the state	product	molecu- lar weight 55,000 55,000	V
tert-butyl perbenzoate tert-butyl peracetate tert-butyl permethacrylate caprylyl peroxide lauryl peroxide methacrylyl peroxide acetyl peroxide p-chlorobenzoyl peroxide cinnamoyl peroxide peracetic acid	90 90 70-90 70 90 90 90 90	12 8;7 9 6:14	flocks granules granules emulsior powder granules trimer emulsio granule granule	48,000 45,000 40,000	
benzoyl peroxide benzoyl peroxide azoisobutyric acid dinitrile card 2/6	90				

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A suspension method for...

The effect of various compositions of the initiators at 90°C in nitrogen, with Solvar serving as a stabilizer, is illustrated in Table 2:

Composition of initiators	ratio	polymerization time, hr	form	molecular weight
benzoyl peroxide + isopropyl acetone peroxide	1:1	7	granules	33,500
benzoyl peroxide + cinnamoyl per- oxide	4:1	3	granules	insoluble
benzoyl peroxide + di-tert-butyl perterephthalate	1:1	10	granules	41,000
benzoyl peroxide + tert-butyl perbenzoate	1:10	10	granules	84,700
benzoyl peroxide + propane di- tert-butyl peroxide	1:1	6	granules	53,800
tert-butyl peroxide + benzoyl peroxide	1:1	12	granules	90,000
tert-butyl peroxide + propane di- tert-butyl peroxide	1:1	12	emulsion	
tert-butyl peroxide + cinnamoyl peroxide Card 3/6	4:1	12	emulsion	
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		6/101	/61/000/001/00	1/015	
A suspension method for		B101/1		17017	
Continuation of	Table	21			
tert-butyl perbenzoate + lauryl peroxide	1 : 1	8	granules	86,700	
	24:1	8	powder	116,000	
tert-butyl perbenzoate + lauryl peroxide	4:1	7	granules	132,000	
tert-butyl perbenzoate + tert- butyl peroxide tert-butyl perbenzoate + propane-	4:1	9	granules	80,900	
di-tert-butyl peroxide tert-butyl perbenzoate + dimethyl	1:1	7	granules	91,900	
peroxy-dicarbonate tert-butyl perbenzoate + caprylyl	1:1	12	emulsion		
peroxide tert-butyl hydroperoxide + pro-	411	8	granules	90,000	
pane-di-tert-butyl peroxide	111	12	emulsion		

A suspension method for ...

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Experiments with benzoyl peroxide (I), tert-butyl peroxide (II), and tert-butyl perbenzoate (III) were made in autoclaves (50,200,600 l capacty), using Solvar as a stabilizer (partly saponified polyvinyl acetate with 12-13% acetate groups). Monomer-to-water ratio = 1:2; temperature: 80-95°C or 80-130°C. These experiments confirmed the results of laboratory tests. Granulated polystyrenes with a molecular weight of 100,000-120,000 were obtained. At 130°C the reaction took place within parison between these styrenes and those obtained by block polymerization

rroperty	suspen with:	sion polystyren	e obtained	block poly-
molecular weight	0.5% I 35,000	0.3% I + II		Styrene
thermal stability according to Vicat according to Martens	99	98	1.5% III 110,000-120,000	90,000
bending strength	79 12	79 22	100 80	96.5 76
tan & at 100 cps E at 100 cps Card 5/6	750 0.3003 2.5	1050 0.0003 2.5	18 950 0.0005	18 1,100 0.0003
- 5/ 5)	2.5	2.5

40m 147 kg 등 설명을 기계한다.

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A suspension method for ...

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Suspension polymerization of styrene in the presence of polystyrene was studied in addition. Ordinary styrene and styrene thermally polymerized up to 30% were further polymerized in an aqueous suspension. Using I and I in a ratio of 1:1 as initiators, a polystyrene with a molecular weight of 140,000 was obtained. Polyvinyl alcohol, Solvar, sodium polymethacrylate, copolymer from methyl methacrylate and methacrylic acid, gelatine, Ca₃(PO₄)₂, Mg(OH)₂, talc, etc. were tested for stabilization. Solvar were found to be the most favorable stabilizers. The polystyrene total amount of the polymer. There are 3 tables and 10 references:

Card 6/6

USMANOVA, N.F., GOLUBEVA, A.V.; VANSHEYDT, A.A.; YEREMINA, Ye.N.

Synthesis and properties of polymers and copolymers of at and

B-vinylnaphthalenes. Report 1: Synthesis of monovinylnaphthalenes.

Plast.massy no.3:3-6

(Naphthalene)

(MIRA 14:3)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

2209, 1372

8/191/61/000/004/002/009 B110/B208

15.8104

AUTHORS:

Usmanova, N. F., Golubeva, A. V., Vansheydt, A. A.,

Sivograkova, K. A.

TITLE:

Synthesis and properties of $\alpha-$ and $\beta-$ vinyl naphthalenes.

Report II. Polymers of vinyl naphthalenes and their

copolymers with styrene

PERIODICAL:

Plasticheskiye massy, no. 4, 1961, 6-8

TEXT: Polymerization of monovinyl naphthalenes, and the properties of polymers that are more resistant to heat than polystyrene are as yet little known. P. P. Shorygin, I. V. Shorygina, Yu. S. Zal'kind, and S. A. Zonis found that d-vinyl naphthalene forms transparent, brittle polymers softening at 100-110°C with a molecular weight of approximately 5000. The poly-Kvinyl naphthalene obtained by S. Loshaek was also brittle and low-molecular. The x-vinyl naphthalene copolymerized by M. M. Koton with styrene and acrylic esters had also a low mechanical strength. The copolymers of β-vinyl naphthalene with styrene, methyl methacrylate, and methyl acrylate, studied by C. C. Price et al., had molecular weights of 10000-40000. The

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Synthesis and properties of ...

S/191/61/000/004/002/009 B110/B208

authors had previously shown (Ref. 9: N. F. Ustanova et al. Plast massy no. 3 (1961)) that α - and β -vinyl naphthalenes may be prepared separately in good yields and simply from naphthalene. \varkappa - and β -vinyl naphthalenes (99.6-99.8 %) were polymerized by the block (I) and emulsion methods (II). In the case of (I), polymerization was performed in the presence of 0.5%benzoyl peroxide for 100 hr in vacuo at temperatures gradually increasing from 60 to 130°C up to 98 % conversion. The polymers obtained in a yield of 97 % were reprecipitated from methanol dissolved in benzene in order to remove the monomers. In the case of (II), polymerization was carried out in the presence of potassium persulfate and sodium cleate in an N_2 atmosphere. The polymer was coagulated with 1 % formic acid and separated in the form of powder with a yield of 97-99 %. The α - and β -polymers thus prepared softened at 160°C, then formed a solid, transparent mass, and dissolved completely in benzene, toluene, and dichloro-ethane. The &-polymer, above all, is brittler than polystyrene, owing to a greater rigidity of its chains. To increase the mechanical strength, styrene links are to be incorporated into the molecule by copolymerization. This was also accomplished by block and emulsion polymerizations at different ratios of the monomers (10-90 %). Intrinsic viscosity, average molecular

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Synthesis and properties of ...

weight, softening point, specific impact strength, and dielectric properties (tan) and & at 100 cps and 20°C) were determined. & had a constant value of 2.6, and tan (increased with increasing naphthalene content from 2.10-4 to 5.10-4. Intrinsic viscosity and molecular weight of the copolymer of &-vinyl naphthalene (Figs. 1 and 2) decreased fivefold by substituting naphthalene links for 40 % of the benzene links. In the β -compound, the decrease takes place more slowly, as its copolymers are high-molecular. The molecular weight of β-vinyl naphthalene copolymers with 40 (I) to 80 % (II) naphthalene content was 108000 (I) - 96000 (II), while that of d-vinyl naphthalene copolymers was only 15000 (I) - 10000 (II). The mechanical strength of a β -copolymer with 40 % β -vinyl naphthalene is sufficient for practical application. The heat resistance of $\alpha-$ and $\beta-co$ polymers linearly increases from 113 to 150°C on transition from polystyrene to polyvinyl naphthalene. The emulsion method is especially suited for the preparation of copolymers with 30 % β -vinyl naphthalene of optimum molecular weight and mechanical strength. I. A. Arbuzova is mentioned. There are 6 figures, 1 table, and 9 references: 5 Soviet-bloc and 4 non-Soviet-bloc. The 3 references to English-language publications read as follows: H. Mark, Chem. Eng. News, 27, 138 (1949); S. Loshaek, Card 3/8

S/191/61/000/004/002/009 B110/B208

Synthesis and properties of ...

E. Broderick, J. Polymer Sci., 39, 223 (1959); C. C. Price et al. J. Polymer Sci., 11, 575 (1953).

Legend to Table: Properties of polymers of α - and β -vinyl naphthalenes. 1) Indices; 2) molecular weight: 3) degree of polymerization: 4) specific impact strength, kg·cm/cm3; 5) heat resistance according to Vicat, °C; 6) tan & at 10⁶ cps; 7) & at 10⁶ cps; 8) method of polymerization; 9) block method; 10) emulsion method; 11) very brittle; 12) note: the study was performed with pressed samples.

	В Способ полимеризации					
(A) HOKASATERA	9 600	Р	10 энульскониня			
	•	β	•	β		
2 Молекулярный вес	9000 58	66000 428	25000 160	115000 744		
4 Удельная ударкая вяз- кость, кГ-см/см ³	77 Очень хрупкий	1,6	1	2,5		
5 Теплостойкость по Вика, °С 6 /g8 при 10° герц	=	160.5 4-5.10-4 2,6	3·10-4	3-4·10-4 2,6		

Card 4/8

USMANOVA, N.F.; GOLUBEVA, A.V.; VANSHEYDT, A.A.; SIVOGRAKOVA, K.A.; DOYNIKOVA, S.N.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

AUTHORS:

Colubera. A. Y., Katstov, O. L. (Decembed), Neymark, (Deceased), Berborodko, G. L., Kon, A. Y., Usmanova, M. P.,

Doynikova, S. K.

TITLE:

Synthesis and polymerisation of styrene deriva-

thesis of obloro derivatives of styrene

PERIODICAL:

Planticheskiye massy, no. 2, 1963, 3-6

TEXT: To produce polymers with higher heat registance than styreae the synthesis of 2,5-dichloro styrene and monochloro styrene was studied, these being intended for use as monomers in the production of new polymers. The initial substance for the synthesis of 2,5-dichloro styrene was p-dichloro bensene ethylated by ethylene or by ethyl chloride, in the presence of AlCl, to make ethyl-p-dichloro benzene. The synthesis of 2,5-dichloro styrene was attempted in several ways: (1) Chlorination of ethyl-p-dichloro benzene to a-chloro-ethyl-p-dichloro benzene, eaponification with Na, CO, to p-dichloro-phenyl methyl carbinol, and dehydration with Al, O, to Card 1/3

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Synthesis and polymerization ...

2,5-dichloro styrene. This method has the disadvantages that c-chloroethyl-p-dichloro benzene decomposes on rectification, that two carbinol. modifications are obtained, and that the yield is only 25-27%. (2) Behydrochlorination of a-chloro-ethyl-p-dichloro bensene with Baso, or Caso, at 350-400°C yielded 65-80% 2,5-dichloro styrene, but the activity of the catalyst decreased rapidly so that frequent regeneration in 0, at 50000 was necessary. (3) Dehydrogenation of ethyl-p-dichloro benzene with styrene contact catalysts at 600-620°C, 10-12 mm Hg, gave a 39% yield; but at these temperatures HOl was formed as the result of pyrolysis. (4) Acylation of p-dichloro benzene with acetyl chloride, acetic anhydride, or acetic acid according to Friedel-Crafts to p-dichloro acetophenone, reduction of the phenone with aluminum isopropylate to p-dichloro-phonyl methyl carbinol, and dehydration with Al20, gave a 55-60% yield of 2,5-dichlore styrene. The dehydration was studied at various temperatures in CO2 and R2 etaospheres. The reaction products were stable up to 450°C and HCl formed only at higher temperatures. To synthesize monochloro styrene, chloro bensene was acetylated with acetyl chloride or acetic anhydride without a solvent Card 2/3

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top	-chloro a	oetophenone	then reduc	ed with	lluminus i	sopropyla	te in		
KHBC	or with	Al ₂ O ₃ to posseded with	-obloro styr	ene. The	e quantita	tive redu	stice of	£	
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\$/191/63/000/004/001/015 3101/3186

AUTHORS: Golubeva, A. V., Katstov, C. L. (Deceased), Bezborodko, G. L., Kon, A. V., Usmanova, N. F., Doynikova, S. N.

TITLE: Synthesis and polymerization of styrene derivatives. Polymers of p-chlorostyrene and 2,5-dichlorostyrene

PERIODICAL: Plasticheskiy massy, no. 4, 1963, 4 - 6

TEXT: Mass polymers were produced from styrene, p-chlorostyrene, and 2,5-dichlorostyrene under equal conditions. Their physico-mechanical and dielectric properties were compared. Results:

average-number	roly-p-chloro-	Poly-2,5-di-	Polystyrene
molecular weight	styrene 340.000	chlorostyrene 810.000	400.000
impact strength, kg/cm2	14	6-9	400.000 18 - 20
bending strength, kg/cm	900	600	1100
Vicat heat resistance, OC		150	110
tanó at 10° cps breaking voltage kv/mm	0.0004-0.0005	0.0002-0.0003	0.0002
	25	28	20-22
Cond 1/2			

Synthesis and polymerization of...

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Poly-2,5-dichlorostyrene was stable to a 7-day action of 96% H₂SO₄, 34% HCl, 65% HNO₂, 99% CH₃COOH at room temperature, whereas poly-p-chlorostyrene cracked at these concentrations. Both chlorine derivatives were stable to 60% H₃FO₄, 85% HCOOH, 50% NaCH, oil, glycerol, and gasoline under the above conditions. Optimum conditions for molding, compression molding, and extracting polymers were studied. Poly-2,j-dichlorostyrene was molded at 170 - 1900 kg/cm², or at 260 - 2050, 1200 - 1900 kg/cm². For poly-p-chlorostyrene, the temperature could be decreased to 175 - 180°C, and 250 - 260°C, respectively. Heat treatment of the pressed samples when 100°C in a thermostat at 90 - 100°C for several nours, is essential to 1900 the styrene. Their mechanical strength, however, is lower than 1900 the styrene. The only disadventage of poly-2,5-dichlorostyrene is that 1900 the styrene. The only disadventage of poly-2,5-dichlorostyrene is that 1900 the styrene above 200°C. There are 4 figures and a tables.

Card 2/2

EPF(c)/EWP(j)/BDS/EWT(m)/ES(s)-2 R. Add F-, Po-4 1t-4 \$/0191/63/000/ 007/0008/0009 ADDEEDSION NR: AP3003300

AUTHORS: Golubeva, A. V.; Tolstikova, Z. D.; Sivograkova, K. A.; Bezborodko, G. L.

APPTY ASD/ESD-3/

TITLE: The synthesis and polymerization of styrole derivatives. Synthesis and polymerization of methylstyrole derivatives

SOURCE: Plasticheskiye massy*, no. 7, 1963, 8-9

TOPIC TAGS: methylatyrole, dimethylatyrole, synthesis, polymerization, bromotoluene, magnesium, methylphenol, paraxylene

ABSTRACT: o-methylstyrole and 2,5-dimethylstyrole were synthesized and studied in detail. o-methylstyrole was synthesized from o-bromotoluene using organic magnesium compound and a subsequent oxidation with ethylene oxide, followed by hydrolysis of the obtained o-methylphenol alcohol over KOH 2,5-dimethylstyrole was synthesized from paraxylene by the method of 2,5-dimethylacetophenon. The polymers of o-methylstyrole and 2,5-dimethylstyrole were obtained by block and emulsion methods. Their physico-mechanical and dielectric properties were studied. It was determined that o-methylstyrole and 2,5-dimethylstyrole polymers possess

1/2 Card

L 13366-63 ACCESSION NR: AP3003300 dielectric properties equal to those of polystyrole. However, they possess higher thermal stability (112-125C) and a high electric rigidity (34-37 kv/mm). These factors distinguish them not only from polystyrole, but also from the polymers of chloro-derivatives of styrole. The stability of dielectric properties of the polymers have been established for a wide temperature interval of 20 to 140C. The molecular weight was determined by the osmotic method. "The authors are grateful to L. N. Veselovskaya for her determination of molecular weights." Orig. art. has: 3 tables. ASSOCIATION: none SUBMITTED: 00 DATE ACQ: 30Jul63 ENCL: 00 SUB CODE: MA NO REF SOV: 003 OTHER: CO6 2/2 Card

ACCESSION NR: AP4012182

5/0191/64/000/002/0000/0008

AUTHOR: Usmanova, N. F.; Golubeva, A. V.; Bulatova, V. H.; Sivograkova, K. A.

TITLE: Styrene copolymer SAM

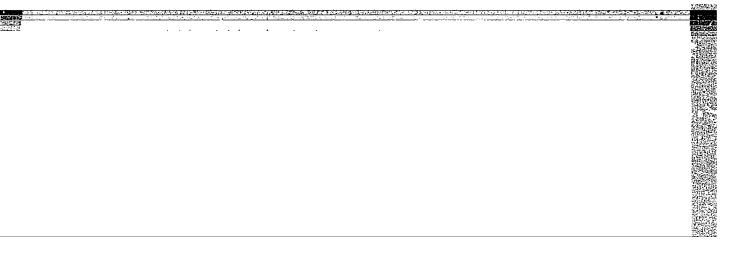
SOURCE: Plasticheskiye massy*, no. 2, 1964, 7-8

TOPIC TAGS: SAM styrene copolymer, physical mechanical property, dielectric property, thermal stability, injection molding, compression molding, styrene copolymer

THE RESIDENCE OF STREET

ABSTRACT: A study of the physicomechanical properties of copolymer SAM shows that this plastic, in comparison with styrene, has better heat stability (by about 25°) and maintains the other physicomechanical properties of styrene. Copolymer SAM has high dielectric properties over an extended time and temperature interval. It may be processed by regular methods applicable to thermoplastics. The conditions for injection molding, extruding, and compression molding copolymer SAN are presented. "Investigation of the dielectric properties of the copolymer was conducted by Candidate of physical and Card 1/2

Mathematical sciences, B. I. Sazhin, whom we thank." Orig. ert. has: 3 figures and 1 table. ASSOCIATION: none SUBMITTED: 00 DATE ACQ: 26Peb64 ENCL: 00 SUB CODE: MT NO REF SOV: 000 OTHER: 000	· ·	e				
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AUTHORS: Ardov. D. I.; Kamer Ponomaraya. V. M.; Golubeya. K. A.; Kinter, I. P.; Shalina 97.75 ORG: none	YY, 55	decks. Class 39, No.	74.5 5 175643	
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ABSTRACT: A	n Author Certificate yrene-acrylonitrile c	has been issued for opolymers. To improve are copolymers are copolymers.	or a method for part impact res ymerized in sus	istance pension
to the plast in the prese	nce of 3-10% nitrile	rubber.	\ .	
SUB CODE: 1	1/ SUBM DATE: 13Apr	62/		
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RM IJP(c) EWT(m)/EWP(j) L 01804-67 SOURCE CODE: UR/0413/66/000/016/0092/0093 ACC NR AP6030604 (AN) INVENTOR: Golubeva, A. V.; Yeremina, Ye. N.; Sivograkova, K. A.; Bezborodko, G. L.; Kitner, I. P.; Shishina, V. P. ORG: none TITLE: Method of obtaining shock-resistant plasticized rubber. Class 39, No. 185056 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 92-93 TOPIC TAGS: butadiene styrene rubber, copolymerization, rubber, plasticized rubber ABSTRACT: An Author Certificate has been issued for a method of obtaining a shock-resistant plasticized rabber from a styrene copolymer, acrylnitrile, and butadieneacrylnitrile rubber by means of suspension copolymerization of the proper n.onomers and rubber. To increase the light stability and heat resistance of plasticized rubber, the process is carried out in the presence of butylacrylate rubber, which is taken in amounts of 2-5%. [Translation] MT Cord 1/1 SUB CODE: 11/ SUBM DATE: 13Apr62/ UDC: 678.746.22-139

EWT(m)/EWP(j) IJP(c) L 01804-67 ACC NRI AP6030604 (AN) SOURCE CODE: UR/0413/66/000/016/0092/0093 INVENTOR: Golubeva, A. V.; Yeremina, Ye. N.; Sivograkova, K. A.; Bezborodko, G. L.; Kitner, I. P.; Shishina, V. P. ORG: none TITLE: Method of obtaining shock-resistant plasticized rubber. Class 39, No. 185056 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 92-93 TOPIC TAGS: butadiene styrene rubber, copolymerization, rubber, plasticized rubber ABSTRACT: An Author Certificate has been issued for a method of obtaining a shock-resistant plasticized rabber from a styrene copolymer, acrylnitrile, and butadieneacrylnitrile rubber by means of suspension copolymerization of the proper n.onomers and rubber. To increase the light stability and heat resistance of plasticized rubber, the process is carried out in the presence of butylacrylate NTT rubber, which is taken in amounts of 2-5%. [Translation] 1/1 SUB CODE: 11/ SUBM DATE: 13Apr62/ UDC: 678, 746, 22-139

SOKOLOV, Yevgeniy Nikolayevich; GOLUBEVA, E.A., red.; VORONTSOVA, L.M., tekhn. red.

[Perception and the conditioned reflex] Vospriiatie i uslovnyi refleks. [Moskva] IEd-vo Mosk. univ.. 1958. 330 p. (MIRA 11:9)

(CONDITIONED RESPONSE) (PERCEPTION)

VORONIN, L.G., red.; LEONT'YEV, A.N., red.; LURIYA, A.R., red.; SOKOLOV, Ye,N., red.; VINOGRADOVA, O.S., red.; GOLUBEVA, E.A., red.; TARASOVA, V.V., tekhn.red.

> [Orientation reflex and exploratory behavior] Orientirovochnyi refleks i orientirovochno-issledovatel'skaia deiatel'nost'. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1958. 350 p. (MIRA 12:2)

1. Akademiya pedagogicheskikh nauk RSFSR. Moscow. 2. Moskovskiy gosudarstvennyy universitet, Institut defektologii Akademii pedagogicheskikh nauk RSFSR (for Sokolov). 3. Institut defektologii Akademii pedagogicheskikh nauk RSFSR, Moskva (for Vinogradova). (REFLEXES) (ORIENTATION)

CIA-RDP86-00513R000515910016-3" APPROVED FOR RELEASE: 06/13/2000

PETROV, A.D.; VDOVIN, V.M.; GOLUBEVA, G.; PUSHCHEVAYA, K.S.

Organosilicon compounds with hydrocarbon bridges between silicon atoms. Part 4: Pyrolysis of α,ω-disilalkanes. Zhur. ob.khim. 31 no.10:3230-3234 0 61. (MIRA 14:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Silicon organic compounds)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"



KOST, A.N.; GRANDBERG, I.I.; GOLUBEVA, G.A.

Reactions of hydrazine derivatives. Part 8. Cyclization of aldazines by alkyl halides. Zhur.ob.khim. 26 no.9:2604-2607 S '56. (MLRA 9:11)

1. Moskovskiy gosudarstvennyy universitet.
(Azines) (Oyclization) (Alkyl halides)

5.3610

77877 SOV/79-30-2-28/78

AUTHORS:

Kost, A. N., Golubeva, G. A

Coll5

TITLES:

Reactions of Hydrazine Derivatives. XXVII. Concerning the Reduction and Alkylation of Pyrazolines

PERIODICAL:

Thurnal obshchey khimii, 1960, Vol 30, Nr 2, pp 494-49

pp 494-497 (USSR)

ABSTRACT:

Zn with HCl, organomagnesium compounds (methylmagnesium iodide, allylmagnesium bromide, benzylmagnesium bromide) and metallic sodium in butyl or ethyl alcohol, do not reduce 3,5,5-trimethyl-1-phenylpyrazoline. However, metallic sodium in butyl alcohol reacts with 1,3,5-trimethyl-1-phenylpyrazoline (I) forming anilin (50.5% yield) Analogously, from 1,3,5-triphenylpyrazoline, 1,3-diphenylpropane was obtained in 50.5% yield. Calls Najonan NNa + Calls NNa + Calls Calls Calls NNa + Calls Calls Calls Calls NNa + Calls Call

Card 1/5

Reactions of Hydrazine Derivatives. XXVII. Concerning the Reduction and Alkylation of Pyrazolines

77877 SOV/79-30-2-28/78

3,3,5-Trimethyl-1-formylpyrazoline in the presence of excess anhydrous formic acid, isobutyric and isovaleric aldehydes, and cyclopentanone, not undergo the Leuckhart reaction. The attempt to alkylate 4,4-dimethyl-5-isopropylpyrazoline with the above aldehydes was also unsuccessful. However, forming 3,5,5-trimethyl-1-benzylpyrazoline, yield. There are 11 references, 6 Soviet, 1 Italian,

Card 2/5

_		again ear ann an Teannaigh an an Aire					
	llowing comp			77877	, 507/ 79-30-2		
	ompound	Reacted with	Product	Yield in %	bp/pr in mm	n _D 20	d ₄ 20
e	-formyl- 6-methyl 3,5- di- thylpyra- oline	benzaldehyde and HCOOH	methyl-3, 5-diethyl- -1-benzyl- pyrazoline	-	161-164/16	1.5251	0.9820
, b	-formyl- -isopro- yl-5-iso- utylpyra- oline	benzalde- hyde	4-isopro- pyl-5-iso butyl-1- -benzyl- pyrazo- line	39 	182-185/13	1.5110	0.9488
- m	-formyl- 4,4-d1- hethyl-5- -isopropyl- byrazoline	benzalde- hyde	4,4-di- methyl- -5-isopro pyl-1- benzylpyr zoline		151-152/18	1.5092	0.9563
varu)	()			ಷ್ಣಾಣದಲ್ಲಿ ೦೨ ಕ		resident services	iranian saabahannala Sebas saabahan

5		<u> </u>						
### Similarly prepared: Compound Reacted With Wit			_			ou /20 - 20 - 2 - (og /78	i i
### ##################################					11011 2	04/19-20-2-4		
4 l-formyl- benzalde- 4-ethyl-5+ 33 164-168/17 1.5089 0.9007 -4-ethyl- hyde -propyl5-propyl pyrazoline 5 l-formyl- cumalde- 4,4-di- 49.6 159-162/8 1.5089 0.9436 -4,4-di- hyde methyl-51-p-iso- propyl- pyrazo- line 6 l-formyl- cumalde- 3,3,5-tri- methylpyra- isopropyl3,5,5-tri- hyde methyl-1-pisopropyl- benzylpyra- zoline 7 1.5089 0.9007 1.5089 0.90		-	Reacted	Product	Yield in %	bp/pr	n _D ²⁰	
1-formyl- cumalde- -4,4-di- hyde methyl-5- methyl- -5-iso- propyl- pyrazo- line 1-formyl- cumalde- -3,5,5-tri- hyde methyl-1-p- methylpyra- zoline 4,4-di- 49.0 1397007000000000000000000000000000000000	4	-4-ethyl- -5-propyl	benzalde-	-propyl- -l-benzyl-		164-168/17	1.5089	0.9607
1-formyl- cumalde- 5,5,5-tr1- 40.1 151 1557 1557 1557 1557 1557 1557 155	5	-4,4-di- methyl- -5-iso- propyl- pyrazo-		methyl-5isopropyl -l-p-iso- propylben- zylpyrazo-	-	159-162/8	1.5089	0.9436
Card 4/5	6	-3,5,5-trl- methylpyra-		methyl-1-p -isopropyl benzylpyra) - . - -	157-158/7	1.5212	0.9634
	Card	4/5						
			0 ·					

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

Reactions of Hydrazine Derivatives. XXVII. Concerning the Reduction and Alkylation of Pyrazolines

77877 SOV/79-30-2-28/78

ASSOCIATION:

Moscow State University (Moskovskiy gosudarstvennyy

universitet)

SUBMITTED:

January 23, 1959

Card 5/5

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S/079/61/031/010/005/010 D227/D303

15.8170

es and

Petrov, A.D., Vdovin, V.M., Goluteva, G., and

Pushchevaya, K.S.

TITLE:

AUTHORS:

Organosilicon compounds with hydrocarbon bridges

between silicon atoms. IV. Pyrolysis of α , ω -

disilalkanes

PERIODICAL:

Zhurnal obshchey khimii v. 31, no. 10, 1961,

3230-3234

TEXT: In the present work the authors studied the pyrolysis of α,ω - disilalkanes of the type $R_3Si(CH_2)_n$ SiR₃ where R is Cl or CH_3 and n = 1 to 4, at $600^{\circ}C$ in a continuous flow system. The thermal stability of these compounds was determined by the quantity of 1) Gaseous and low boiling products; 2) Heavy residues; 3) Gases evolved. The decreasing order of stability of the investigated \ll , ω - hexamethyldisilalkanes is as follows:

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Organosilicon compounds ...

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 $(CH_3)_3$ SiCH₂Si(CH₃)₃ \gg (CH₃)₃Si(CH₂)₃Si(CH₃)₃Si(CH₃)₃Si(CH₂)₂...
(II) (III)

 $Si(CH_3)_3 > (CH_3)_3 Si(CH_2)_4 Si(CH_3)_3$

and the results of pyrolysis are represented in Table 1 where A is the weight % of gaseous and low boiling product and is calcu- M_1-M_2

lated from $\frac{M_1-M_2}{M_1-1}$, M_1 = weight of the original disilalkane, M_2 =

weight of pyrolysis products after distillation of low boiling products, B is the volume of gas (at $20 \pm 2^{\circ}\text{C}$) in ml. per 0.1 g. mol. of disilalkane at a given flow rate; and C is weight % of high boiling residues. Experimental procedure: The pyrolysis was carried out in a quartz tube heated to $600 \pm 5^{\circ}\text{C}$ and the products

Card 2/6

27905 S/079/61/031/010/005/010 D227/D303

Organosilicon compounds ...

collected in a trap cooled to -10 to -15°C. Fractionation of products was done using a column with 20 theoretical plates and the fractions obtained were analyzed spectrometrically. Compound I gave gaseous products consisting of 93.9% H₂ and 6.1% CH₄; compound III yielded 13.5% CH₂ = CHSi(CH₃)₃ b.pt 54-55°C, low boiling products mainly (CH₃)₃ SiH and (CH₃)₄ Si and gases H₂, CH₄, C₂H₆ and C₂H₄. Compound II decomposed into (CH₃)₃ SiH and Si(CH₃)₄ and also (CH₃)₃ SiCH = CH₂, with H₂, CH₄, C₂H₆, C₂H₄ and C₃H₆. Compound IV gave a fraction, b.pt 0-53°C, containing (CH₃)₃SiCH₂CH=CH₂ and (CH₃)₃SiCH₂CH=CH₂; also gaseous products as above. Cl₃SiCH₂CH₂SiCl₃ decomposed into HSiCl₃, SiCl₄ and a mixture of CH₂ = CHSiCl₃ and CH₃CH₂SiCl₃. Compound Cl₂(CH₃)-SiCH₂CH₂Si(CH₃)Cl₂ yielded beside CH₃SiCl₂H and CH₃SiCl₃ a mixture

Card 3/6

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

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Organosilicon compounds ...

27905 S/079/61/031/010/005/010 D227/D303

composed of CH = CHSi(CH₃)Cl₂ and CH₃CH₂Si(CH₃)Cl₂. The formation of (CH₃)₃SiH during the pyrolysis of II, and Cl₃SiH and CH₂ = CHCH₂SiCl₃ during the pyrolysis of VII (Cl₃SiCH₂CH₂CH₂SiCl₃) indicates breaking of the Si-C bond in the disilpropane chain. At the same time, separation of CH₂=CHSi(CH₃)₃ from products of pyrolysis of II, and Cl₃SiCH₃ and CH₂ = CHSiCl₃ from VII is due only to the breaking of C-C bond in the bridging groups. It may be said that under the action of high temperatures Si(CH₂)_nSi (n≥2) decomposes along Si-C as well as C-C bonds. There are 1 figure, 1 table and 16 references: 6 Soviet-bloc and 10 non-Soviet-bloc. The 4 most recent references to English-language publications read as follows: M. Kumada et alia, J. Org. Chem. 23, 252 (1958); K. Shijna, M. Kumada, J.Org. Chem. 23, 139 (1958); A.I. Barry et alia incl. a. End. Chem. 51, 131 (1959); P.D. George et alia, Chem. Revs. 56, 1074, 1075, 1077 (1956).

Card 4/6

Organosilicon compounds ...

S/079/61/031/010/005/010 D227/D303

ASSOCIATION:

Institut organicheskoy khimii im. N.D. Selinskogo Akademii nauk SSSR (Institute of Organic Chemistry im. N.D. Selinskiy, Academy of Sciences USSR)

SUBMITTED:

September 30, 1960

Card 5/6

KOST, A.N.; GOLUBEVA, G.A.; STEPANOV, R.G.

Reactions of hydrazine derivatives. Part 33: Synthesis of 1,3-diamines by the hydrogenolysis of pyrazolines. Zhur.ob.khim. 32 no.7:2240-2244 31 '62. (MEA 15:7)

1. Moskovskiy gosudarstvennyy universitet. (Amines) (Pyrazoline) (Hydrogenolysis)

KOST, A.N.; GOLUBEVA, G.A.; TERENT YEV, A.P.; GRANDBERG, I.I.

Splitting of the pyrazoline cycle with breaking of the nitrogennitrogen bond. Dokl.AN SSSR 144 no.2:359-362 My 162.

(MIRA 15:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonsova. 2. Chlen-korrespondent AN SSSR (for Terent'yev). (Pyrazoline)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

S/079/63/033/001/015/023 D205/D307

AUTHORS:

Grandberg, I. I. and Golubeva, G. A.

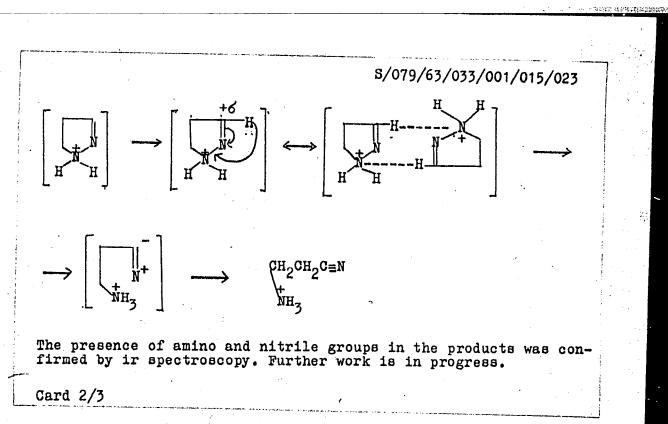
TITLE:

Reactions of hydrazine derivatives. XXXV. A new type of pyrazoline rearrangement, with opening of the ring

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 1, 1963, 244-247

TEXT: The present paper is a continuation of earlier work (ZhOKh, 32, 651, (1962)), in which 4-ethyl-5-propyl pyrazoline was observed to rearrange into α-ethyl-β-propyl-β-aminopropionitrile, and is aimed at a more detailed study of this new rearrangement. It was found that pyrazolines unsubstituted in position 3, such as 4-ethyl-5-propyl-(I), 4-iso-propyl-5-iso-butyl-(II), and 4,4-dimethyl-5-iso-propyl-(III) pyrazolines, undergo this rearrangement when their hydrochlorides are heated to 210 - 260°C, to the corresponding β-aminonitriles. The reaction is thought to be the result of a redistribution of the electron density, followed by ring opening:

Card 1/3



	Reactions of	hydrazine	S/079/63 D205/D30	S/079/63/033/001/015/023 D205/D307			
	ASSOCIATION:	Moskovskiy gosudar Lomonosova (Moscow monosov)	rstvennyy universi 7 State University	tet imeni M. imeni M. V.	V. Lo-	T and the state of	
	SUBMITTED:	January 2, 1962	•				"
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•	Card 3/3			•			
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S/079/63/033/001/016/023 D205/D307

AUTHORS:

PERIODICAL:

Kost, A. N. and Golubeva, G. A.

TITLE:

Reactions of hydrazine derivatives. XXXVI. Hydrogenation of 1-acylpyrazolines and preparation of pyrazolidines

ridine

Zhurnal obshchey khimii, v. 33, no. 1, 1963, 248-252

TEXT: Continuation of earlier work (ZhOKh, 30, 494 (1960); DAN SSSR, 129, 1300 (1959); ZhOKh, 32, 2420 (1962)). Hydrogenation of in a steel autoclave at 100 atm, over skeletal Ni, for 5 hours, gave 1,2-diacetyl-3,5,5-trimethylpyrazolidine (I), in 59% yield, which on boiling with conc. HCl gave 3,5,5-trimethylpyrazolidine (II), in 59% yield, (II), in 61% yield. 1-acetyl-5-phenylpyrazolidine was analogously yield. 1-thiocarbamido-(-4-ethyl5lpropyl, -4-iso-propyl-5-iso-bumade (to facilitate identification of pyrazolines) in 46 - 63% Card 1/2

Reactions of hydrazine ...

\$/079/63/033/001/016/023 D205/D307

yields, by adding 3 moles of KCNS to 1 mole of pyrazoline in glacial acetic acid, boiling till the solids dissolved, cooling, pouring into water and making alkaline with KOH. 3,5,5-trimethylpyrazoline was reduced with Na in n-BuOH, over 2 hours at 17000, to give a 35% yield of compound II. The hydrogenation of 3,4-tetramethylene-5,5-pentamethylenepyrazoline at 150°C and 100 atm, in anhydrous MeOH, over skeletal Ni, proceeded anomalously with fission of C-C and N-N bonds, giving cyclohexylamine. There is 1

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova (Moscow State University imeni M. V. Lo-

monosov)

SUBMITTED:

January 4, 1962

Card 2/2

TRYAPKIN, Andrey Ivanovich; GOLUBEVA, G.I., red.; TRUSOV, N.S., tekhn. red.

[Production and reclaiming of wiping materials] Vyrabotka i regeneratsiia obtirochnykh materialov. Moskva, Gosmestpromizdat, 1962. 145 p. (MIRA 16:4)

(Wiping cloths) (Fibers)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

GOLUBEVA, G. P., RYABCHENKO, N. I., SOKOLOVA, T. D., TSEYTLIN, P. I., SPITKOVSKI, D. M., USAKOVSKAYA, T. S. (USSR).

Structural Lability of Deoxyribonucleic Acids and Deoxyribonucleoproteins as a function of their Molecular Morphology.

report presented at the 5th Int'l.
Biochemistry Congress, Moscow, 10-16 Aug. 1961

GOLUBEVA, G. P.; SPITKOVSKIY, D. M.; TSEYTLIN, P. I.

1. Institut eksperimental noy biologii AMN SSSR, Moskva.

(NUCLEIC ACIDS) (RADIATION—PHYSIOLOGICAL EFFECT)

(HEAT—PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910016-3"

KHUDYY, Yu.; GUROVA, Ye.; GOLUBEVA, I.

Electric anesthesia. Mauka i zhizn' 23 no.11:63 H '56. (MLRA 9:11)

(Electric anesthesia)